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Certificate of Analysis and Data Sheet

Mouse Anti Human CD227:FITC

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-00521

Target Species
Human

Isotype
IgG3

Preparation

Immunogen: Urinary MUC-1 mucin

Purification: Purified IgG prepared by affinity chromatography on Protein G'

Fusion Partners: Spleen cells from immunized Balb/c mice were fused with cells of a mouse myeloma cell line.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Buffer: Phosphate buffered saline pH7.4

Preservative Stabilizers: 0.09% Sodium Azide, 1% Bovine Serum Albumin

Approx. Protein Concentration: IgG concentration 0.1 mg/ml

Specificity

Mucins are a family of high molecular weight, heavily glycosylated proteins (glycoconjugates) produced by many epithelial tissues in vertebrates. MCA1742F recognizes CD227, also known as mucin 1 which is a breast cancer associated mucin encoded by the Muc-1 gene. CD227 is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. This protein is overexpressed abundantly in >90% breast carcinomas and metastases.

DS-MB-00521 recognizes the peptide epitope ARG-PRO-ALA-PRO within the protein core of the mucin.

Storage

Store at +4°C or at -20°C if preferred. This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of shipment

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
Immunohistochemistry			•	
Functional Assays			•	
Flow Cytometry (1)	•			Neat - 1/10

Note: Other applications are not tested yet. Optimal dilutions should be determined by the user.

(1) Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. Method sheets are available on request

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

References

1. Price, M.R. *et al.* (1990) Immunological and structural features of the protein core of human polymorphic epithelial mucin. *Mol. Immunol.* 27: 795-802.
2. Price, M.R. *et al.* (1990) C595 - a monoclonal antibody against the protein core of human urinary epithelial mucin commonly expressed in breast carcinomas. *Br. J. Cancer.* 61: 681-686.
3. Price, M.R. *et al.* (1991) Purification of anti-epithelial mucin monoclonal antibodies by epitope affinity chromatography. *J. Immunol. Methods* 139: 83-90.
4. Denton, G. *et al.* (1995) Primary sequence determination and molecular modelling of the variable region of an anti MUC1 mucin monoclonal antibody. *Eur. J. Cancer* 31A: 214-221.
5. Denton, G. *et al.* (1997) Production and characterization of a recombinant anti Muc 1 scFv reactive with human carcinomas. *Br. J. Cancer.* 76: 614-621.

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